IN I EKNA I IONAL SEARCH REPURI

Intrantional Application No PCT/JP2004/011401

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N5/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1 - 30. KALE S ET AL: "THREE-DIMENSIONAL CELLULAR X DEVELOPMENT IS ESSENTIAL FOR EX VIVO 32-34, 42-44, FORMATION OF HUMAN BONE" 46,51, NATURE BIOTECHNOLOGY, NATURE PUBLISHING, 54,55, vol. 18, September 2000 (2000-09), pages 58-60, 954-958, XP000996174 62-64, ISSN: 1087-0156 68-85, 88, 92-96. 149-160 the whole document -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. *P* document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 05/01/2005 29 December 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Chavanne, F

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Intermional Application No
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ordanon or document, with indication, where appropriate, or the relevant passages	Relevant to claim No.
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abstract	81-85
page 355, column 2 - page 356, column 1, paragraph 1 page 356, column 2, paragraph 2 page 357, column 2, paragraph 2 figure 1	
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page 15, paragraph 2 — page 17, paragraph 1	
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Olation of document, with indication, the opposite of the control	C.(Continua	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
15 May 2003 (2003-05-15) 18-31, 74-77, 85-87, 91-94, 96,149, 150,154, 156,157 abstract paragraphs '0001!, '0008!, '0014!, '0016!, '0031!, '0083! - '0085!	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
paragraphs '0001!, '0008!, '0014!, '0016!, '0031!, '0083! - '0085!	X	15 May 2003 (2003-05-15)	18-31, 74-77, 85-87, 91-94, 96,149, 150,154,			
		paragraphs '0001!, '0008!, '0014!, '0016!, '0031!, '0083! – '0085!	156,157			

Information on patent family members

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Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	c.	time of filing/furnishing Contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	tional comments:

national application No. PCT/JP2004/011401

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 97-141 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.